

NEW SUBSPECIES OF *CYANIRIODES LIBNA*, *PORITIA ERYCINOIDES*
 AND *PANCHALA PARAGANESA* FROM PALAWAN
 (LEPIDOPTERA : LYCAENIDAE)

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Cyaniriodes libna miotsukushi H. Hayashi, ssp. n. (Figs. 1-4)

♂. Upperside shining emerald green, with uniform broad black borders. A black spot at the end of cell on forewing. A recumbent hair tuft overlying a brand in hindwing cell below radius. A second tuft near base of cell. Underside white, with numerous narrow, dark brown zigzag lines.

Forewing length 11-12mm.

♀. Upperside pale bluish white, with very broad dark brown borders. Underside ground colour as in male, but numerous zigzag lines paler and less distinct than male.

Forewing length 14mm.

Distribution: Palawan

Holotype ♂, Apogan, Palawan, 14 December 1969, Y. Honda leg. Paratypes 1♀, Apogan, Palawan, 16 December 1969, Y. Honda leg, 1♂, Apogan, Palawan, 2 December 1969, Y. Honda leg, 1♂, Alibobogan, Palawan, 4 December 1969, Y. Honda leg, 1♂, Alibobogan, Palawan, 6 December 1969, Y. Honda leg, 1♂, Apogan, Palawan, 14 December 1969, Y. Honda leg.

The species has been known from Mergui, South Burma, Malaya and Borneo, and newly found in Palawan. The male of this new subspecies differs from the same sex of ssp. *andersonii* Moore (Malaya) and ssp. *libna* Hewitson (Borneo) as follows: 1) A black spot at cell-end on forewing larger and more conspicuous than *libna*. 2) Underside postdiscal sinuous striae on both wings clearer than *andersonii*. 3) Discal cuneiform spots in spaces 4 and 5 more distinct than *andersonii* and *libna*.

The subspecific name of this species is dedicated to the emblem of Osaka City to which the Osaka Museum of Natural History belongs. MIOTSUKUSHI means guideposts placed near rivers and ports to lead ships, and the prosperity of the City has been owed much to ships going in and out.

Poritia erycinoides kinoshitai H. Hayashi, ssp. n. (Figs. 5-6)

♀. Upperside blackish brown, with a pale orange patch on forewing, and a narrow pale orange streak on hindwing. Underside chalky white. Markings slightly darker than ground. Bands not evenly distributed, wider apart especially in discal areas.

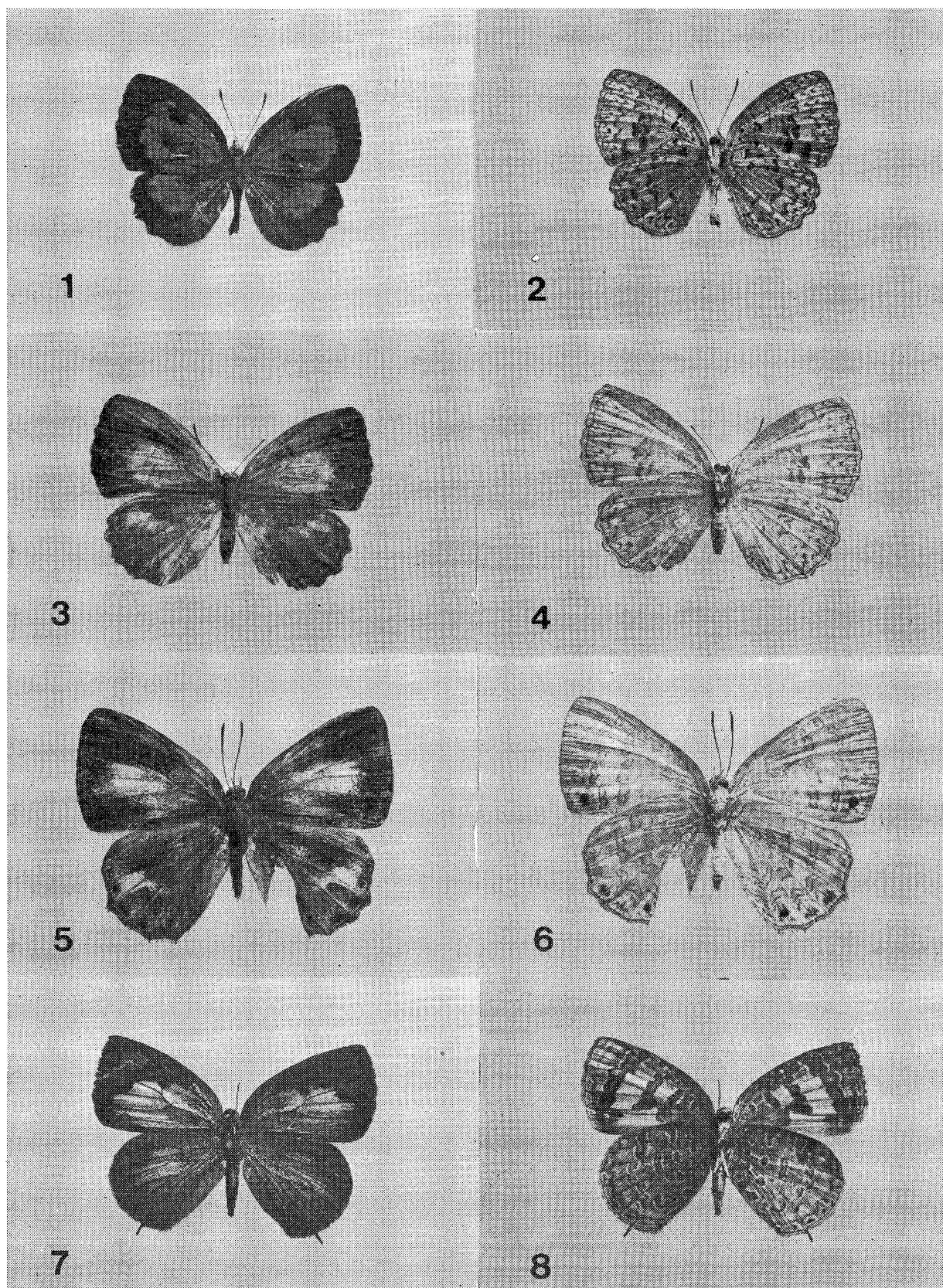
Forewing length 15-16mm.

Distribution: Palawan

Holotype ♀, Alibobogan, Palawan, 7 December 1969, Y. Honda leg. Paratype ♀, Alibobogan, Palawan, 7 December 1969, Y. Honda leg.

The species ranges from Assam and Burma through Malaysia as far as Mindanao and Luzon, and is firstly recorded from Palawan. The female of this new subspecies is different from the same sex of ssp. *phaluke* Druce (Borneo) and ssp. *phare* Druce (Mindanao and Luzon) in the following respects: 1) Underside ground colour whiter than *phaluke* and *phare*, especially darker red brown in *phare*. 2) Submarginal double rows of dark spots on both wings not so clearly appeared as in *phaluke* and *phare*. 3) Discal and postdiscal band not so remarkably dislocated at vein 4 on forewing as in *phaluke* and *phare*.

I name this new subspecies after Dr. Kazuo Kinoshita, Professor Emeritus of Osaka University, who showed me great kindness when I was a student of the Department of Economics, Osaka University.



Figs. 1-2. *Cyaniriodes libna miotsukushi* ssp. n., holotype ♂.

Figs. 3-4. ditto paratype ♀.

Figs. 5-6. *Poritia erycinoides kinoshitai* ssp. n., holotype ♀.

Figs. 7-8. *Panchala paraganesa tomokoae* ssp. n., holotype ♀.

Panchala paraganesa tomokoae H. Hayashi, ssp. n. (Figs. 7-8)

♀. Tailed. Upperside powdery blue. Black border very broad. Underside greyish white. Markings on forewing brown. Those on hindwing tinged with white except for spots in basal area. Forewing discal spots in spaces 2, 3 and 4 in line and inwardly flanked by extremely broad whitish band. Forewing length 13-14mm.

Distribution: Palawan

Holotype ♀, Alibobogan, Palawan, 6 December 1969, Y. Honda leg. Paratypes 1♀, Alibobogan, Palawan, 3 December 1969, Y. Honda leg., 1♀, Alibobogan, Palawan, 6 December 1969, Y. Honda leg.

The species ranges from Nepal to Malaysia and Java, and is recorded from Palawan for the first time. The female of this new subspecies differs from the same sex of ssp. *mendava* Corbet (Malaya) and ssp. *dusunensis* Barlow et al. (Borneo) as follows: 1) Underside more strongly whitish than *mendava*. 2) Underside without purple tinge, but in *dusunensis* generally tinged purple, particularly on hindwing and apical area of forewing. 3) White suffusion at cell-end of forewing conspicuous, however much reduced or absent in *dusunensis*. 4) White suffusion between basal and cell-end spot remarkable, but absent in *mendava*.

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沖縄本島におけるカワカミシロチョウ

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1975年7月、沖縄を訪れた際、本島南部斎場御嶽において、カワカミシロチョウ (*Appias albina*) を採集したので、気付いた点をここに報告する。

筆者は、7月9日午前、同地において12♂♂ (すべて新鮮) 13♀♀ (色あせた個体6頭、他は新鮮) を採集した。他に100頭以上の本種がクサギおよびヤブガラシの花に群がっており、そのほとんどが新鮮な個体であった。また、同日の午後、再び同地を訪れたが、全く目撃できなかった。

7月12日午後、再度同地を訪れ、1♂2♀♀ (♀ともに新鮮) を採集。この日も午後のためか訪花中の個体は全く見られず、樹下の日影の葉上で休息する個体が割合見られた。

このようなことから、本種は、午後の高温時には活動をしないのではないかと思われる。天候は、9日が午前中快晴、午後に20分程度の雨のち晴、12日は、終日晴であり、両日ともに本種が見られたのは、沖縄本島南部・斎場御嶽のみで、付近の久手堅・知念・百名においては本種を目撃することができなかった。

また、本種の訪花中の動作は、翅を少し開きぎみにして、絶えず小さざみに振動させており、翅を休めている個体が見られなかったことは、興味深いことである。

最後に、採集した♀には3型があるので記しておく。

I型 表翅: 白色地・黒紋 裏面: 白色地・前翅基部黄色・黒帶

II型 表翅: 白色地・黒紋 裏面: 前翅白色地・前翅基部および翅端が黄色・黒帶、後翅黄色

III型 表翅: 黄色地・黒紋 裏面: 前後翅共に黄色・前翅黒帶。

上記の3型の採集数は、I型10頭、II型3頭、III型2頭であるが、この割合は、筆者が多数の個体の中からII型、III型を選んで採集したためであり、目撃した中では、I型の個体数が圧倒的に多かった。

末筆ながら、種々御教示いただいた若林守男氏に厚く御礼申し上げる。